



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)
MAIN CAMPUS**

**UNIVERSITY EXAMINATIONS
2021/2022 ACADEMIC YEAR**

FOR THE DIPLOMA

IN

**BUSINESS INFORMATION TECHNOLOGY
SPECIAL/SUPPLEMENTARY EXAM**

COURSE CODE: DBT 063

COURSE TITLE: SYSTEM ANALYSIS AND DESIGN

DATE: 01/08/2022 TIME: 8AM - 10AM

INSTRUCTIONS TO CANDIDATES

- Answer Questions ONE and ANY OTHER TWO.

TIME: 1 Hour 30 Minutes

Question One (24 Marks):

- a) Why do you think it is necessary as a system developer to analyze and design systems before coding process starts? (6 marks)
- b) Discuss six types of information systems (18 marks)

Question Two (18 Marks):

- a) What is system requirement in system analysis and design? (2 marks)
- b) State and explain the types of feasibility studies (6 marks)
- c) Discuss the different types of system changeover (10 marks)

Question Three (18 Marks):

- a) Discuss at least three information system development approaches you know. (12 marks)
- b) In what environment would you apply the prototype model and why? (6 marks)

Question Four (18 Marks):

- a) What is the importance of documentation in system analysis and design? State and explain SIX points (12 marks)
- b) Differentiate the following types of maintenance (6 marks)
 - i. Corrective Maintenance
 - ii. Adaptive Maintenance
 - iii. Perfective Maintenance

Question Five (18 Marks):

- a) Differentiate between traditional system development and structured system development methods (4 marks)
- b) Discuss the steps in system development life cycle (SDLC) (14 marks)